

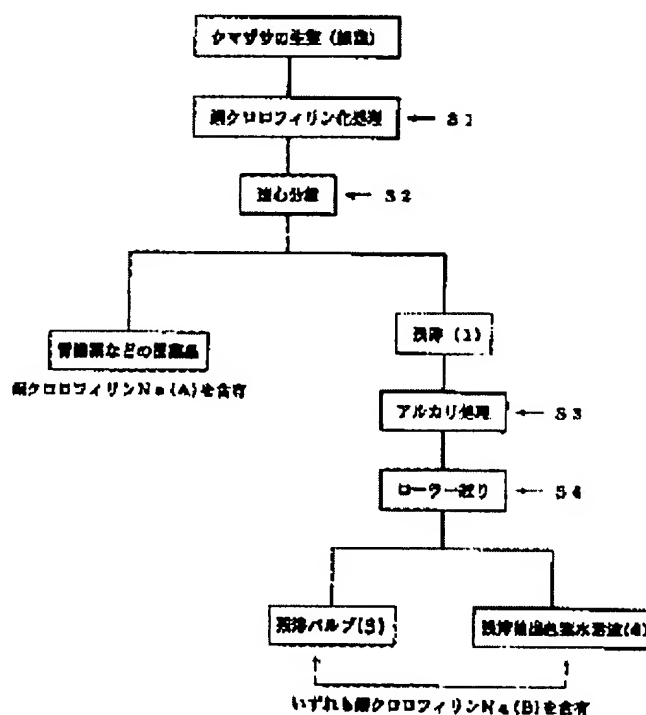
# SODIUM COPPER OR IRON CHLOROPHYLLINE, PULP, AQUEOUS PIGMENT SOLUTION, PAPER FIBER AND METHOD FOR PRODUCING THESE MATERIALS

**Patent number:** JP2002037789  
**Publication date:** 2002-02-06  
**Inventor:** KIMURA MITSUO; OKAMOTO KAIICHIROU; ITOI TORU  
**Applicant:** ITOI TEXTILE:KK  
**Classification:**  
**- international:** C07D487/22; A01N43/36; A01N55/02; A01N65/00; A61P31/04; D02G3/08; D03D15/02; D21H17/02  
**- european:**  
**Application number:** JP20000252883 20000823  
**Priority number(s):**

## Abstract of JP2002037789

**PROBLEM TO BE SOLVED:** To obtain sodium copper or iron chlorophylline, or the like, which can maintain an anti-microbial property for a long time, has excellent practicality, and is used to obtain various useful articles that can maintain the anti-microbial property for long periods on their daily employments.

**SOLUTION:** This sodium copper or iron chlorophylline (B) is characterized by being extracted from a plant and having a chemical structure fast to solar light. For example, pulp (3) and an aqueous pigment solution (4) which contain the sodium copper chlorophylline (B), respectively, are produced by replacing magnesium in chlorophyll contained in the leaves of a plant with copper, subjecting the product to an alkali hydrolysis reaction (step S1), separating (step S2) the produced residues (1), further subjecting the obtained residues to a weak alkali treatment (step S3), and finally subjecting the product to a squeezing treatment (step S4).



Data supplied from the esp@cenet database - Patent Abstracts of Japan

**8. Copper or iron chlorophyllin sodium salts having microbicidal activity and lightfastness, pulp, aqueous pigment solution, paper yarn, and their manufacture**

**CAS SECTION- 140**

**CAS SUBSECTION- 007**

**CAS 136-10 136-152621 136:152621 NDN- 213-0514-5450-5**

**INVENTOR(S)- Kimura, Mitsuo; Okamoto, Kaiichiro; Itoi, Toru**

2002-02-06

8 page(s)

**PATENT NUMBER- 2002 37789**

**PATENT APPLICATION NUMBER- 2000-252883/A2**

**DATE FILED- 2000-08-23**

**DOCUMENT TYPE- Patent; Primary Pub. Type - Patent**

**CODEN- JKXXAF**

**CORPORATE AUTHOR- JP, Japan**

**COUNTRY- JP**

**PATENT TYPE- Jpn. Kokai Tokkyo Koho**

**PATENT ASSIGNEE(S)- Itoi Textail K. K.**

**INTERNATIONAL PATENT CLASS- C07D4872200; A01N0433600; A01N0550200; A01N0650000; A61P0310400; D02G0030800; D03D0150200; D21H0170200; A61K0315550; D03D0150000; D04B0011400**

**SUBFILE CODE- MAC**

**PATENT APPLICATION PRIORITY- 2000/05/16, JP-2000/143517**

**SECTION CROSS-REFERENCE- 0000300003105126143**

**LANGUAGE- Japan**

Copyright 2002 by American Chemical Society

**NO-ABSTRACT**

**IDENTIFIER(S)- copper chlorophyllin sodium salt manuf lightfastness; microbicidal paper yarn manuf**

**CAS REGISTRY/EC NUMBER(S)- 100111-78-2 --PP    HEADING PARENT- Cuprate(3-) -  
-Ý18-carboxy-20-(ca- rboxymethyl)-8-ethen- yl-13-ethyl-3,7,12,1- 7-tetramethyl-21H,23- H-  
porphine-2-propano- ato(5-)-.kappa.N21,.kappa.N22,.kappa.N23,.kappa.N24"-**